



## Embedded Systems and Product Design Services

Re:Build AppliedLogix provides product OEMs with leading-edge embedded systems design services and commercialization expertise. Our senior team of electronics, software, and mechanical engineers are fluent in many industries, application domains, and technologies, including those for fuel-cell-control and battery-management systems, precision agriculture, medical devices, automotive and transportation components, and imaging systems with machine vision and AI processing integration.

### INDUSTRIES SERVED:

- Aerospace & Defense
- Cleantech
- Health
- Industrial Equipment
- Mobility

### LOCATION:

📍 777 Canal View Blvd.  
Suite 200  
Rochester, NY 14623



## Core Competencies:

- Capture and refine product concepts and requirements
- Develop novel, robust architecture specifications product platforms
- Perform leading-edge, custom electronics, software, and mechanical design
- Provide quick turnaround on prototypes for rapid concept ideation
- Facilitate production ramp-up with custom functional test systems, and provide expert guidance for agency approvals
- Deliver production-ready systems optimized for volume manufacturing

## Key Differentiators:

Our team of more than fifty senior engineers has a remarkable depth and breadth of technical expertise and a commitment to integrity, teamwork, and value.

The Re:Build AppliedLogix team is structured to tackle the multidisciplinary aspects of digital product development. The range includes custom analog and digital embedded

electronics and fully integrated subsystems, embedded software on bare metal, RTOS or Linux (as appropriate for the application), full-stack application development (Linux & Windows), packaging for embedded systems, mechanical systems, tooling design and manufacturing process development, cost-effective, rapid prototyping, and more.

## Skills and Technologies:

- Embedded Controllers
- Digital Signal Processing
- Image Processing
- Control Algorithms (PID, Motor, Motion)
- Sensor Integration
- Data Acquisition
- Operating Systems (Embedded Linux, FreeRTOS, MQX / QNX)
- C / C++ / C#
- FPGA Development
- High-Speed Digital Circuit Board Design
- DDR3 / DDR4 Memory Subsystems
- Precision Analog Design
- High-Efficiency Power Conversion
- Packaging / Enclosure Design
- Thermal Management and Simulation

## CONTACT US OR VISIT OUR WEBSITE:

info@rebuildmanufacturing.com  
585.678.1027

